

# MATERIAL SAFETY DATA SHEET

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PRODUCT CODE: F-ZIMECTERIN

PRODUCT NAME: ZIMECTERIN

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

**IDENTITY** (As Used on Label and List) **ZIMECTERIN****SECTION I - Product Identification**

Manufacturer Name and Address:  
Farnam Companies, Inc.  
301 West Osborn Road  
Phoenix, AZ. 85013

Telephone Numbers:  
24 hour emergency nu (602)285-1660  
Business hours (602)234-2269  
Marketing (602)285-1660

Date Entered: 06/04/93  
Last Revision: 02/02/98  
MSDS Printed: 03/02/99

**Synonyms:**

Chemical Family: Compound

Hazard Label:

Molecular Formula:

Molecular Weight: NE or NA

**SECTION II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity/Common Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Percentage
Ivermectin Comp Bla	70161-11-4				0.1 - 1.0
Ivermectin Comp Blb	70209-81-3				0.1 - 1.0
Titanium dioxide	13463-67-7		10 mg/m3		1.0 - 2.0
PROPYLENE GLYCOL	57-55-6				60.0 - 80.0

**SECTION III - Physical/Chemical Characteristics**

Boiling Point: NE or NA	Specific Gravity (Water = 1):	NE or NA
Melting Point: NE or NA	Vapor Pressure (mm Hg): . . .	NE or NA
	Vapor Density (Air=1): . . .	NE or NA
Physical States: [ ] Gas	Evaporation Rate: . . . . .	NE or NA
[ ] Liquid	(Butyl Acetate=1)	
[ X ] Solid	Solubility In Water: . . . . .	
	Dispersible	
	Percent Volatile: . . . . .	NE or NA

Appearance and Odor:  
White odorless paste

**SECTION IV - Fire and Explosion Hazard Data**

Flash Pt: NE or NA Method Used: Explosive Limits: LEL: NE UEL: NE  
Extinguishing Media:  
Use water spray or all purpose dry chemical.

Special Fire Fighting Procedures:  
Fire fighters should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards:  
None known

**SECTION V - Reactivity Data**

Stability: Unstable [ ] Stable [ X ]  
Conditions To Avoid - Instability:  
NE

Incompatibility - Materials To Avoid:  
None known

Hazardous Decomposition Or Byproducts:  
None known

Hazardous Polymerizations: May occur [ ] Will not occur [ X ]  
Conditions To Avoid - Hazardous Polymerizations:  
None known

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## SECTION VI - Health Hazard Data

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Route(s) of Entry: Inhalation? No    Skin? Yes    Eyes? Yes    Ingestion? Yes    Other:

Health Hazards (Acute and Chronic):

Carcinogenicity: NTP? No    IARC Monographs? No    OSHA Regulated? No

Carcinogenicity/Other Information:

Ivermectin is not listed as a carcinogen with NTP, OSHA, or IARC. Titanium dioxide is listed with IARC as "not classifiable as human carcinogen".

Recommended Exposure Limits:

LD 50/LC 50:

Signs and Symptoms Of Exposure:

None known

Medical Conditions Generally Aggravated By Exposure:

None known

Emergency and First Aid Procedures:

IF SWALLOWED: If accidental ingestion occurs, get medical attention immediately.

IF INHALED: N/A

IF IN EYES: Flush with plenty of water. Get medical attention if irritation occurs or persists.

IF ON SKIN: Wash contact area with soap and water. Remove contaminated clothing and wash before reuse. If irritation occurs or persists, get medical attention.

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## SECTION VII - Precautions for Safe Handling and Use

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Steps To Be Taken In Case Material Is Released Or Spilled:

Shovel spill into disposal containers. Rinse spill site with detergent and water. Use suitable protective gear.

Waste Disposal Method:

Dispose of according to local, state and federal regulations

Hazard Label Information:

nitrogen oxides                      None known

phosgene                              Do not puncture or incinerate

Precautions To Be Taken in Handling and Storing:

Store in cool dry place away from heat or sunlight. Refrain from smoking and eating when handling. Wash hands after use. Avoid contact with eyes.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. Not for human use. Do not use in horses intended for food purposes.

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## SECTION VIII- Control Measures

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Respiratory Equipment (Specify Type):

none

Ventilation:

Local Exhaust: sufficient

Mechanical (General):

Special:

Other: y

Eye Protection:

goggles

Protective Gloves:

rubber

Other Protective Clothing:

None needed except for manufacturing situations or large spills or product.

Work/Hygienic/Maintenance Practices:

Wash hands before eating, smoking or using restroom.

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## SECTION IX - Additional Comments

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The following information is for the Ivermectin only, not the Zimecterin Paste.

Ivermectin:

LD 50 Mouse, oral 25 mg/kg

LD 50 Rat, oral 50 mg/kg

LD 50 Dog, oral approx 80 mg/kg

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.